PBS software

CCO

the PBS archive add on for CO line items and CO totals records

Manual Part B

- Administration -

Compatible with
- SAP ERP 5.0
- SAP ERP 6.0

SAP® Certified
Powered by SAP NetWeaver®

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Schwanheimer Strasse 144a
64625 Bensheim, Germany
Phone: **+49 - 6251 - 174 0**
Fax: **+49 - 6251 - 174 174**
Email: info@pbs-software.com
Internet: www.pbs-software.com

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Introduction to the PBS ILM Concept

Information Lifecycle Management

Information Lifecycle Management (ILM) means the administration of information related to the time when it is used, taking into account its total costs and compliance. A conclusive, efficient ILM concept must, as a result, control data growth, manage retention rules, and also ensure compliant data storage. Furthermore, an easy access to archived data is decisive and, for example, its transfer during internal and external audits.

PBS ILM Concept

PBS software provides existing SAP customers extensive solutions to put into practice the requirements that were described above for a stringent and successful ILM concept. PBS is considered as an expert for complex, integrated data accesses to archived and database data and meanwhile, also to data that is located on decommissioned SAP systems. In addition to classical SAP data archiving, SAP BI-specific nearline storage is also supported.

PBS archive add ons®

PBS archive add ons always rely on SAP archiving having been carried out successfully. This is the basis for a permanently high-performing SAP system. In principle, you can indeed retain posted documents in the SAP database for a very long time due to a large database capacity. Depending on the document volume, this may result, however, in massive performance losses and, sooner or later, heavily increasing operation costs. The daily backup becomes difficult for large data stocks, for example.

A convenient display and evaluation of archived transaction data – as the SAP user is used to for database data – can often only be carried out in a very restricted manner using SAP standard means depending on the application module. This is particularly the case for large archive data stocks. The PBS archive add ons can be used here. They can be provided for nearly all SAP modules and release levels, and start with a "C" (for Complete) in their description. For example, PBS archive add on CCOPA for the SAP module COPA.

Using the PBS archive add ons you can quickly and easily access your archived data even after data archiving during your day-to-day business. The unrestricted data access is realized by an intelligent indexing concept. It extends the SAP archive infrastructure components and integrates itself optimally with SAP archiving. Archive data that has been indexed can still be provided after a release upgrade immediately, without restrictions, and without migration effort. The PBS archive index is stored in sequential files of the SAP file system in the same way as the SAP archive data. Afterwards, you can access the archive data online via the familiar transactions. The SAP user can display the data from the SAP database and the

archive data simultaneously via the PBS archive add on index. For the user, it seems as though the archived data is still in the SAP database.

The deep integration of the PBS transactions also enables direct navigation to subsequent and previous documents both within the indexed SAP module as well as to linked documents from other SAP modules. This applies not only for resident but also without restrictions for archived data. The benefit for the user increases the more PBS archive add ons are used.

The potential benefits of the ILM concept raises substantially if you take into account the savings that result from the SAP mirror systems. There are usually at least two of them meaning that the saved disk storage can be tripled by performing data archiving. Thus, time is saved for the data backup.

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1. Introduction

The **PBS archive add ons** are constructed in modular form and cover the application modules FI, SD, MM, CO etc. with a special program package for exactly this application. You can easily see from the name which PBS archive add on belongs to which SAP module: CFI, CSD, CMM, CCO etc. All PBS archive add ons have in common that they can be easily installed in the SAP system via the SAP transport utilities **"tp"** and "SAINT". For installation details of the PBS archive add ons please see the specific installation manual (manual part A).

This administration manual was written to make construction and administration of the PBS archive add on CCO as easy as possible. At first, data archiving with transaction SARA is discussed; the second topic is the PBS archive add on CCO construction from the SAP archive files.

The modular user manual of each PBS archive add on is composed of partial manuals:

- Part A: Installation
- Part B: Administration, Archive Construction and Maintenance
- Part C: Application Programs / Transactions
- Part D: Migration Support R/2 => R/3 (if available)

There are additional manuals for the PBS utilities: Conversion Tool, Archive Browser, Translation Tool.

Should you have questions regarding the installation of the PBS archive add ons or if you have problems when installing the software please call directly the **Service Hotline of PBS Software GmbH**:

Phone: +49 - 6251 - 174 110

Fax: +49 - 6251 - 174 174

Email: hotline@pbs-software.com

Release Compatibility

The **PBS archive add on CCO** discussed in this manual runs with the basis programs of SAP SE, 69190 Walldorf/Baden, Germany **SAP ERP 2004/2005**.

2. The PBS archive add on CCO for CO Line Items and CO Totals Records

PBS Software GmbH supplies the PBS archive add ons for the modules CFI, CSD, CMM and CCO within a unified release strategy. This means for you, the PBS customer, a facilitated management of the different PBS archive add on versions and an easier installation of updates and corrections. Each delivery contains a **Final Release** and, if necessary, a **Customer Patch** (see manual part A: Installation).

2.1. Basics of CCO

The PBS archive add on CCO for CO line items and CO totals records is a package of ABAP/4 programs allowing the comfortable and quick display and evaluation of archived Controlling documents in the SAP system. All transactions displaying archived data are based on the standard SAP transactions. This guarantees that the users can work immediately with the archive transactions without special training. Using the PBS archive add on CCO all archived CO line items can be transferred into the PBS index and displayed. Thus all SAP archiving objects are supported. Furthermore, using the new version of the module it is now possible to index and display again the archived CO totals records.

With the help of the report/report interface you can call the PBS line item reports from the different totals reports. Thus, you can display all line items belonging to a totals record from an extract, the database or the archive. You can access during this process the line items from the database and the PBS index (see manual part C: hints for users).

The PBS archive add on CCO administers the data transferred into the PBS index completely in the SAP ADK technique. This means: The constructed secondary indices, actually allowing the comfortable and quick access to the archived data, are created, stored and administered in analogy to the original SAP archiving technique. This function has improved handling and performance of construction and administration of the PBS archive add on CCO. The CO line items and CO totals records remain in the original SAP archive files. The PBS index file of the PBS index contains a reference via which the CO line item and CO totals record you search for can be accessed immediately.

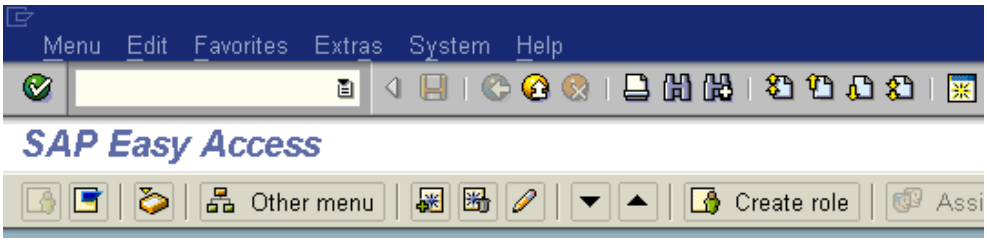
The precondition for the implementation of the PBS archive add on CCO is a correct SAP data archiving with transaction SARA. In addition to archiving objects CO_ITEM and CO_TOTAL, all archiving objects with which you can archive CO line items and CO totals records can be used for the CO line items and CO totals records.

For hints about SAP archiving of CO line items and CO totals records that can be transferred to the archive of the PBS archive add on CCO after having completed the archiving under **SARA,** please see the following chapter. We also recommend that you see the corresponding SAP documentation for archiving.

2.2. Supplied Menus

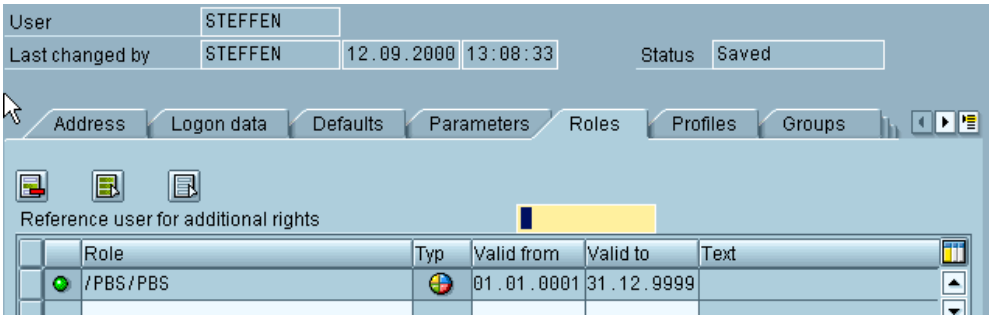
Together with the PBS archive add on a global menu is supplied for all products and utilities of PBS Software GmbH and a menu especially for the PBS archive add on CCO.

The delivery of the PBS archive add on CCO contains area menus /PBS/PBS (main menu of the PBS modules) and /PBS/CCOI (menu of the PBS archive add on CCO). From these menus, you have to generate now roles which then can be integrated into the user master. You can also create a role directly from the Easy Access menu.



You are free to choose the name of the role; the name can also be within the PBS namespace. A PBS area menu is then transferred by pressing the function key **'Copy menus from area menus'** by indicating the corresponding PBS menu name. During the transfer, the system query for the resolution of the area menu is to be answered with 'yes'.

The role created this way can now be integrated in the corresponding user master. We recommend allocating the global role /PBS/PBS to the administrators and the special function menu /PBS/CCOI to the final users.


User STEFFEN
Last changed by STEFFEN 12.09.2000 13:08:33
Status Saved
Address Logon data Defaults Parameters Roles Profiles Groups
Reference user for additional rights
Role Typ Valid from Valid to Text
/PBS/PBS 01.01.0001 31.12.9999

3. SAP Data Archiving

3.1. The Principle of CO Line Items and CO Totals Records Archiving

For the archiving of CO line items and CO totals records from the SAP database the archiving objects **CO_ITEM** (Controlling line items) and **CO_TOTAL** (cost center totals records) are used.

In principle, CO line items and CO totals records can also be archived (and deleted) by other archiving objects, for example CO_COSTCTR, PP_ORDER, etc. The index generation programs of the PBS archive add on CCO can index CO line items and CO totals records which have been archived by such an archiving object.

The SAP archiving program writes the data to sequential files which can be accessed within the SAP file system. Archive files can also be transferred into an external storage system (optical archive systems, HSM systems) via SAP ArchiveLink. For a later use of the SAP archive files with the PBS archive add on CCO, these archive files need to be accessible via ArchiveLink (In the archive administration you can recognize the status 'accessible' from a special flag).

When the PBS index setup has been completed, the CO line items and CO totals records can be displayed with the transactions and programs of the PBS archive add on CCO (index construction of the PBS archive add on CCO see chapter 4).

In the following we give a brief outline of the most important topics of archiving with the archiving object CO_ITEM as an example. Please see the corresponding SAP documentation before you archive and delete CO line items and CO totals records from your database! Keep in mind that you cannot reload archived CO line items and CO totals records. They can only be evaluated sequentially with SAP transactions.

3.2. Preparing the Archiving

Having started transaction SARA you can enter the archiving object name (here CO_ITEM) you want to use for the data archiving from the database. Depending on the archiving object, partly different pushbuttons appear:

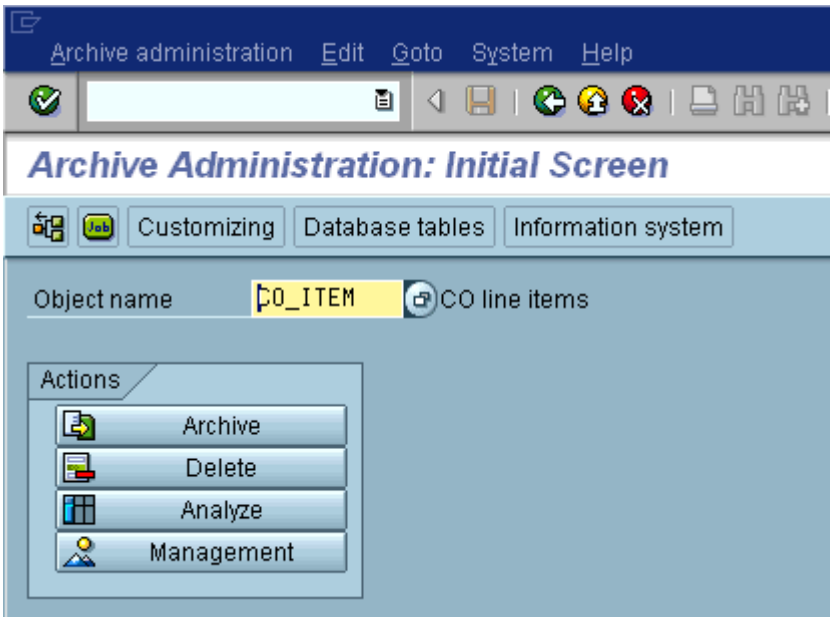


Diagram 3.1: SARA initial screen for archiving object CO_ITEM

By clicking on the button 'Customizing', you can check and, if necessary, change the definitions which are entered as standard:

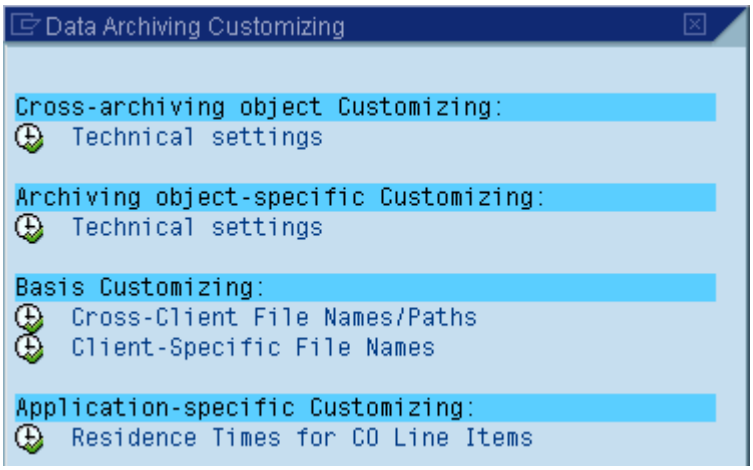


Diagram 3.2: Selection screen for customizing options (here CO_ITEM)

Via the logical file name in the technical settings of the archiving object-specific customizing you can determine where the created archive files should be stored. The file names and file paths have to be maintained in the basis customizing.

For archiving object CO_ITEM, you only need to carry out application-specific adjustments: You need to update the residence time of the CO line items in the database via the corresponding menu options (see above). For the maintenance of the residence times you can also use transaction SM30, table ARCU_COIT1.

The residence time which you have to define for each object type determines the number of posting periods a CO line item has to remain in the database before it can be archived. When using the PBS archive add on CCO, this value can be very small, in theory even zero as the archived line items can be displayed/evaluated any time via the PBS transactions. Please agree the value to be entered with your user department! Please see the example in diagram 3.3:

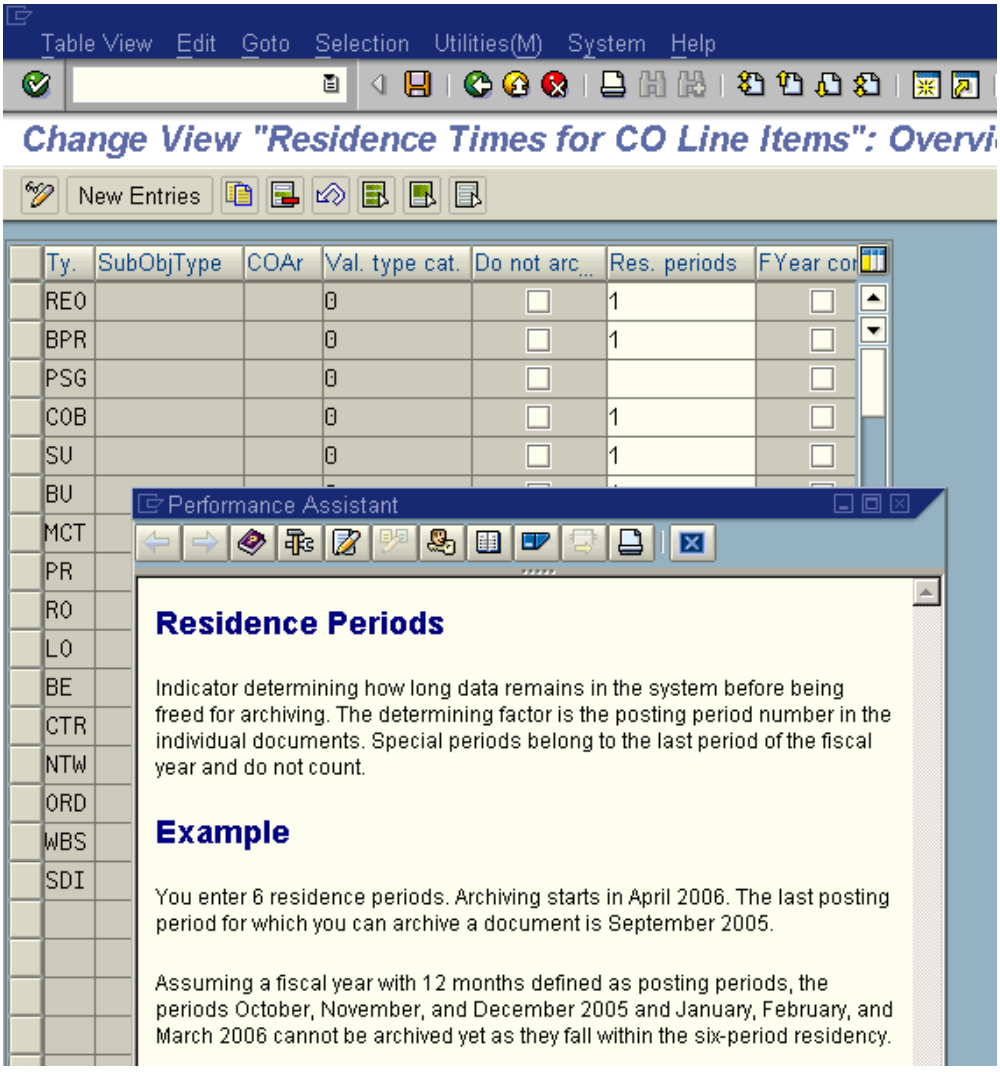


Table View Edit Goto Selection Utilities(M) System Help
Change View "Residence Times for CO Line Items": Overvi
New Entries
Ty. SubObjType COAr Val. type cat. Do not arc... Res. periods FYear co
REO 0 1
BPR 0 1
PSG 0
COB 0 1
SU 0 1
BU
MCT
PR
RO
LO
BE
CTR
NTW
ORD
WBS
SDI
Performance Assistant
Residence Periods
Indicator determining how long data remains in the system before being freed for archiving. The determining factor is the posting period number in the individual documents. Special periods belong to the last period of the fiscal year and do not count.
Example
You enter 6 residence periods. Archiving starts in April 2006. The last posting period for which you can archive a document is September 2005.
Assuming a fiscal year with 12 months defined as posting periods, the periods October, November, and December 2005 and January, February, and March 2006 cannot be archived yet as they fall within the six-period residency.

Diagram 3.3: Entry of residence periods

3.3. Archiving of CO Line Items and CO Totals Records from the Database

Having completed (respectively checked) the customizing definitions, you can start the archiving from the database. The archiving program should be started as background job via a selection variant which is maintained by pressing the button 'Archive' in 'Processing' of the entry dynpro of transaction SARA.

Using the archiving object CO_ITEM, you can archive those object types whose residence time and block size have been maintained in the user-specific Customizing (see above).

Within the section 'Processing' you can select the following processes via ‘radio button’: only a test run for archiving, the archiving of CO line items (start deletion separately at a later time), or archiving and deletion. Please see the example variant for the archiving of CO line items with CO_ITEM in Diagram 3.4. Activate the function 'Log per document' only in the test mode for a reasonable data volume!

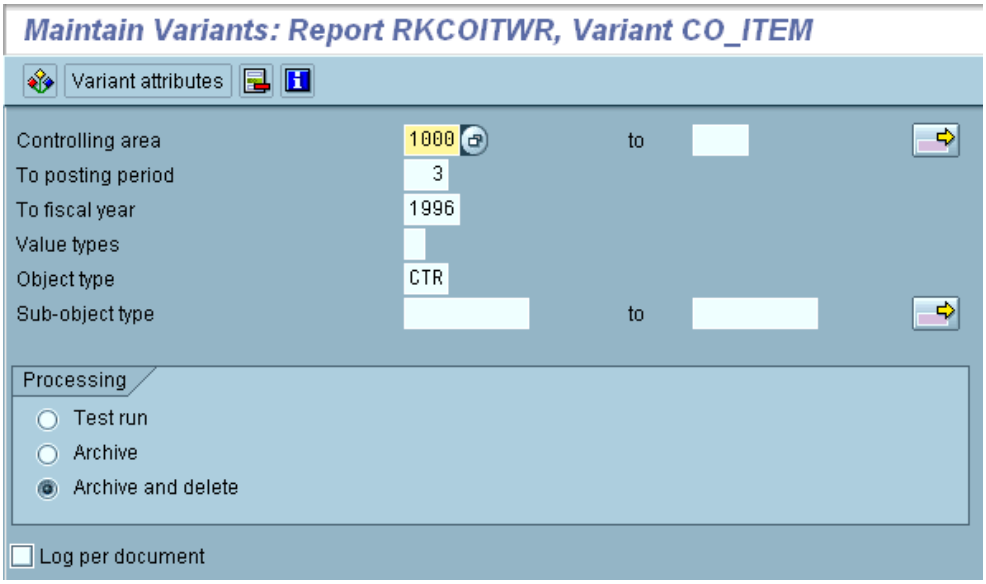


Diagram 3.4: Selection variant for the archiving with CO_ITEM

The procedure for the archiving of cost center totals records using archiving object CO_TOTAL is principally the same.

By clicking on the button 'Management' in the initial dynpro of transaction SARA an overview of the archive runs carried out and the corresponding SAP archive files can be displayed:

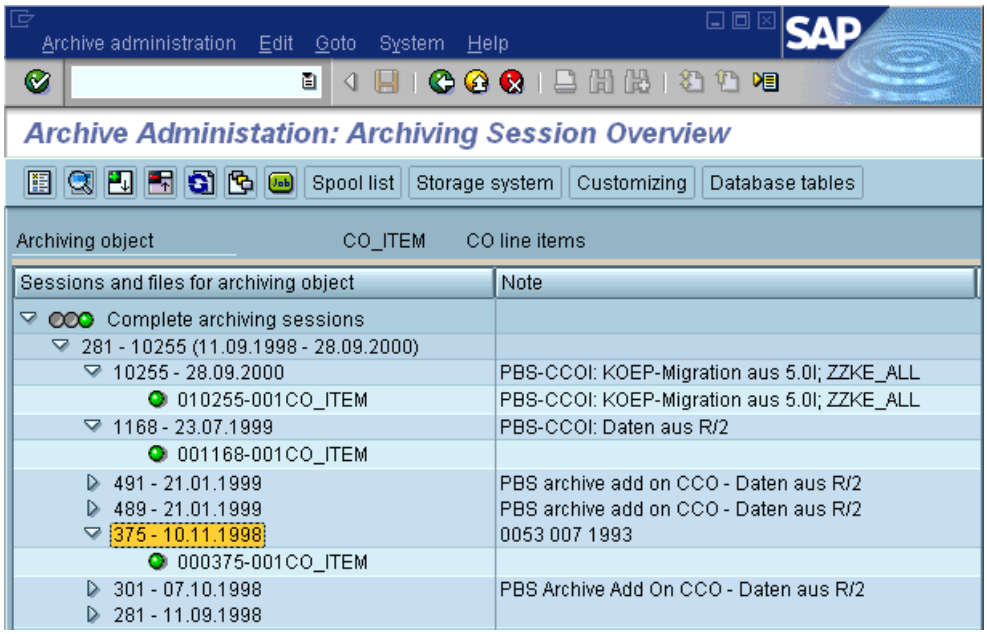


Diagram 3.5: Archive administration: Archiving Session Overview

4. Index Setup with CCO

The PBS index is only described for the CO line items. Please proceed the same way for the CO totals records.

The index files of the PBS archive add on CCO are created by the CCO index generation programs. In this process, only the index data which refers to the complete data record in the original SAP archive files is stored in the PBS-specific files. This avoids keeping redundant data and guarantees a quick setup of the PBS index. Furthermore, this offers the possibility to remove these SAP archive files into an optical archive (or HSM system) outside the SAP system via SAP ArchiveLink. Nevertheless, online data access is still possible via the PBS archive add on CCO.

The index generation program creates all necessary indices for the archived CO line items and CO totals records of the SAP archive file. This index data is not stored in the SAP database but in a sequential file in the SAP file system using the ADK (Archive Development Kit) technique of SAP SE. For this purpose, the index generation program uses the PBS-specific archiving objects /PBS/CCOI and /PBS/CCOT.

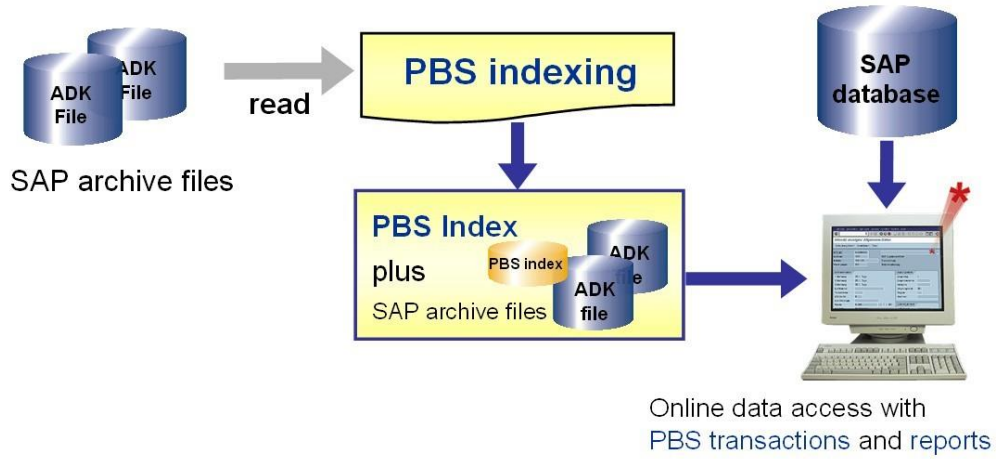


Diagram 4.1: Principle of the archive setup with CCO

4.1. The Administration Board

The PBS Administration Board is the central administration instrument for the indices that are generated via the ADK technique and that were stored in so-called archiving runs (index areas). Administration and archive data indexing can be executed centrally here from an interface. The call up can also be executed directly using the transaction /PBS/CCOI_ABO.

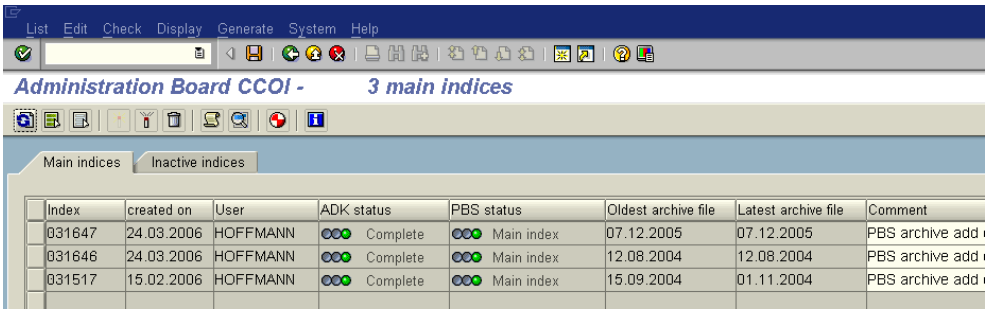

List Edit Check Display Generate System Help
Administration Board CCOI - 3 main indices
Main indices
Inactive indices
Index created on User ADK status PBS status Oldest archive file Latest archive file Comment
031647 24.03.2006 HOFFMANN Complete Main index 07.12.2005 07.12.2005 PBS archive add
031646 24.03.2006 HOFFMANN Complete Main index 12.08.2004 12.08.2004 PBS archive add
031517 15.02.2006 HOFFMANN Complete Main index 15.09.2004 01.11.2004 PBS archive add

Diagram 4.2: Administration Board CCOI

Description of the individual icons:

By activating an index area the indices are made available to the user. Only deactivated index areas can be activated.

Deactivation of an index area means that these indices are no longer available to the user.

The deletion of an index area results in all dependent table contents and physical files being deleted.

The log of an index area is displayed.

Starting the archive tool.

Starting the index generation program.

4.2. Initial Indexing Process

You can construct the index via the index generation program. Start the program using the function "Generate index" in the Administration Board.

Before starting the program or storing the selection variant, several **delimitations** have to be made. They are important for the setup and performance of the PBS archive add on CCO. This is explained in detail below.

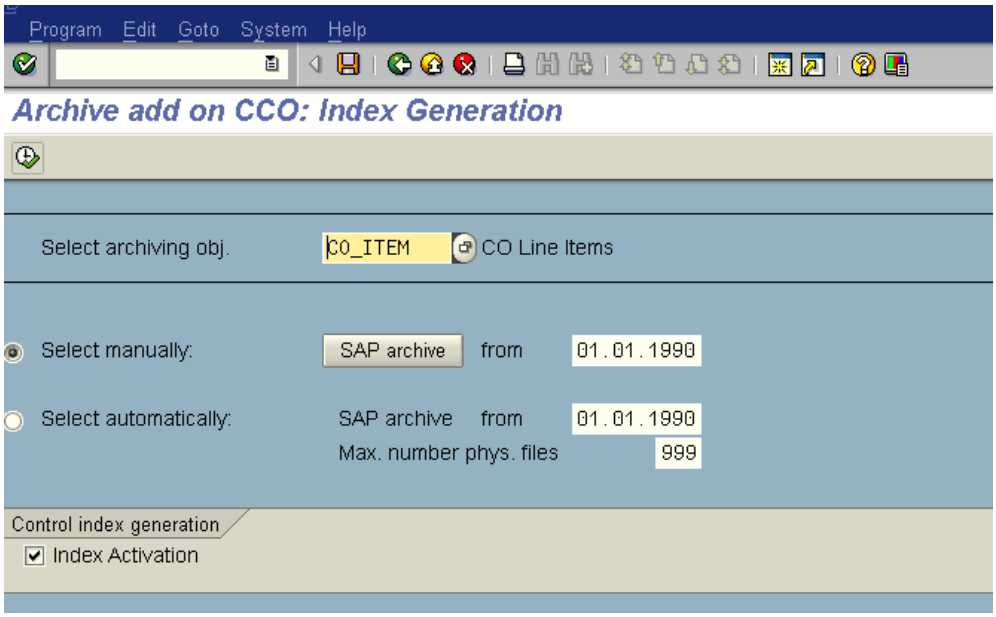


Diagram 4.3: Selection screen of the index generation program

Select archiving object: With this parameter you select the SAP archiving object whose archive files are to be processed. Archiving object CO_ITEM, recommended by PBS, is entered as a default selection.

Select automatically: In the automatic mode, without displaying a list before, all available SAP archive files which have been created from the indicated date are selected. SAP archive files already indexed in previous runs of the PBS archive add on CCO are not selected again!

Select manually: If this button is active, a popup window is opened when clicking on the button 'SAP archives'. In this window a list of the available SAP archives created from the indicated date is displayed. Please select the SAP archive run for which you want to generate the indices with the PBS archive add on CCO. An internal safety mechanism prevents multiple indexing of the same SAP archive.

The parameter **'Max. number phys. files'** can be used to limit the number of archive files per index generation procedure. You only need to set a limitation if your sort capacities in the SAP system are not sufficient. If index generation is per-

formed in batch mode, the index generation program is automatically started again after completion of the indexing and the next archive files are indexed.

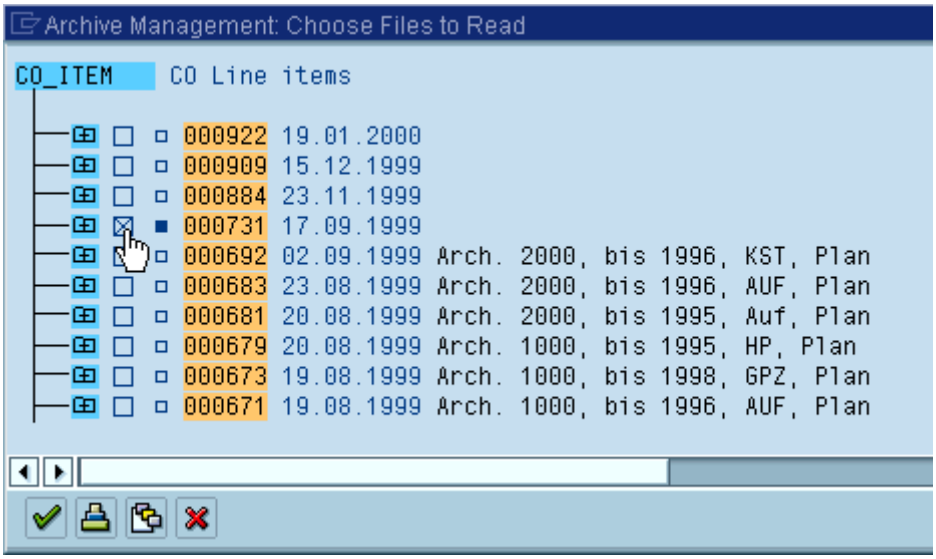


Diagram 4.4: Archive run selection for archiving object CO_ITEM

Activate index: If this parameter is set, the archive is activated after the actual indexing process has been completed. If you want to carry out several indexing processes one after another, this parameter should not be set until the last run is carried out. If this parameter was not set, you can activate the index separately at any time.

Please note: The index construction of the PBS archive add on CCO must be carried out for each client separately! After having completed the PBS index setup, you should **backup all newly created PBS index files!**

If you want to separate the PBS index files from the SAP archive files, you can use transaction 'FILE' to change the path name for the PBS index data of archiving object /PBS/CCOI. You can also use the 'Customizing' button for the PBS archiving object /PBS/CCOI in the initial dynpro of transaction SARA to go to the maintenance of path and file names for the PBS index files.

4.3. Index activation

Once the PBS archive add on CCO has been set up using the index generation program, update the administration table in the SAP system. The generated index runs are then activated.

You can use the 'Index Activation' parameter in the index generation program for this. This results in activating the index once the actual indexing procedure has been completed.

The indices, however, can also be activated separately via the Administration Board. Use the 'Index Activation' function to do this.

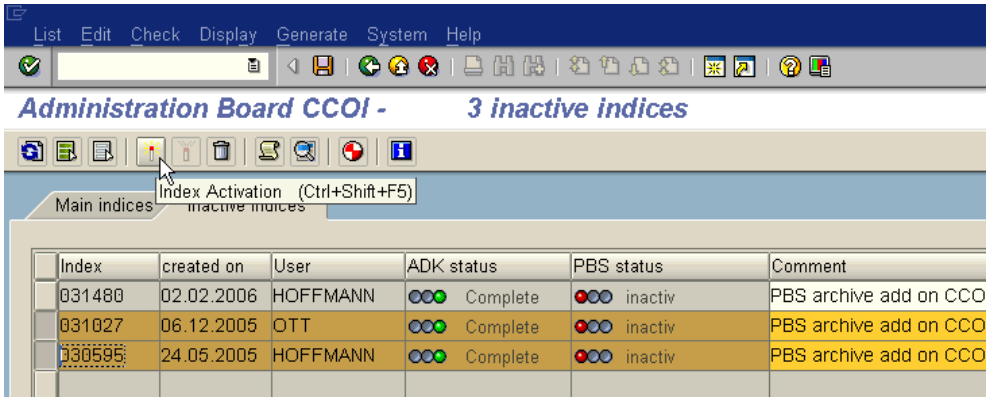


Diagram 4.5: Activate indices

4.4. Further Indexing Processes

When indexing SAP archive runs with the PBS archive add on CCO, the PBS index of the current process is no longer merged to the index of the previous indexing processes. Due to the secondary indices used by PBS a sufficient performance is guaranteed during the online access to the archive data. This technique enables an improved runtime when setting up the PBS index. Thus, the index setup for additional indexing processes with the PBS archive add on CCO is completely identical to the first indexing process as described before (chapter 4.2).

4.5. Delete Indices

If necessary, the PBS indices created with the index generation program can be deleted again. During this process, the files in which the PBS indices are stored are physically deleted from the magnetic disk and the corresponding entries are removed again from the database tables ADMI_RUN, ADMI_FILES and /PBS/ARCH_IDX.

Use the function ' Delete index' in the Administration Board to delete the PBS indices.

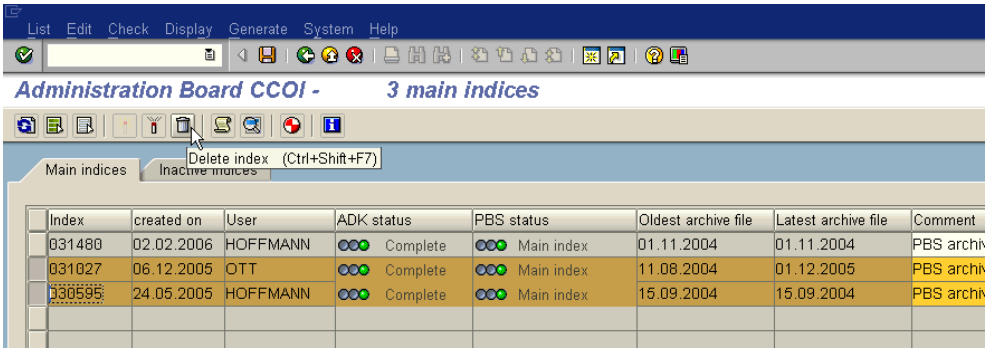

List Edit Check Display Generate System Help
Administration Board CCOI - 3 main indices
Delete index (Ctrl+Shift+F7)
Main indices
Index created on User ADK status PBS status Oldest archive file Latest archive file Comment
031480 02.02.2006 HOFFMANN Complete Main index 01.11.2004 01.11.2004 PBS archiv
031027 06.12.2005 OTT Complete Main index 11.08.2004 01.12.2005 PBS archiv
030595 24.05.2005 HOFFMANN Complete Main index 15.09.2004 15.09.2004 PBS archiv

Diagram 4.6: Delete indices

4.6. Archiving Tool

To display the indices in the PBS archive add on CCO the archive tool can be used. Start the transaction via the function 'Scan index objects' in the Administration Board.

The transaction enables you to display the archive indices, the references to the CO line items as well as the administration information. In a basic list, the header entries of the PBS data objects used for the storage and by selecting different header entries the corresponding detailed information are displayed.

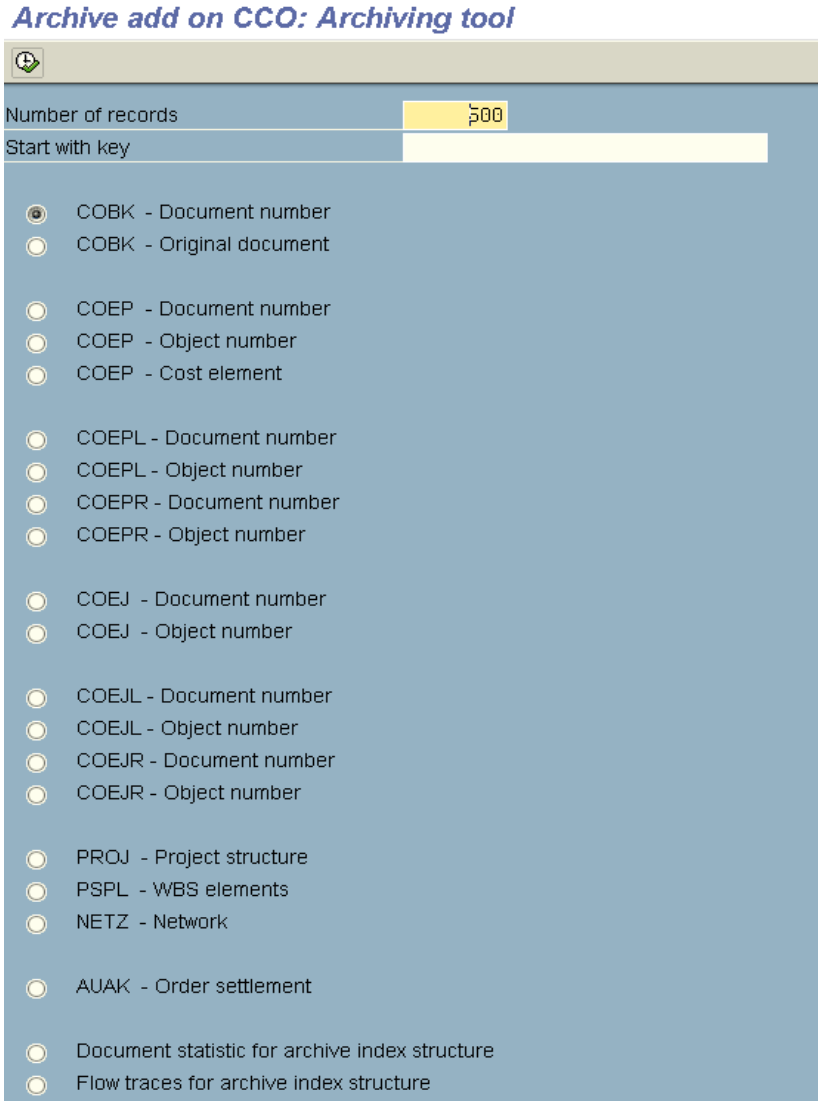

Archive add on CCO: Archiving tool
Number of records
500
Start with key
COBK - Document number
COBK - Original document
COEP - Document number
COEP - Object number
COEP - Cost element
COEPL - Document number
COEPL - Object number
COEPR - Document number
COEPR - Object number
COEJ - Document number
COEJ - Object number
COEJL - Document number
COEJL - Object number
COEJR - Document number
COEJR - Object number
PROJ - Project structure
PSPL - WBS elements
NETZ - Network
AUAK - Order settlement
Document statistic for archive index structure
Flow traces for archive index structure

Diagram 4.7: Delimitations of the archiving tool

The archiving tool can be started directly via transaction code /PBS/COIS. To select the requested data volume in an easily comprehensible way, you can limit the maximum number of hits to be displayed or enter the index key on the selection screen (see diagram 4.7). The following example shows the access to PBS data objects containing cost center line items. In addition to the selection delimitations mentioned before, the basic list and the detailed display are shown:

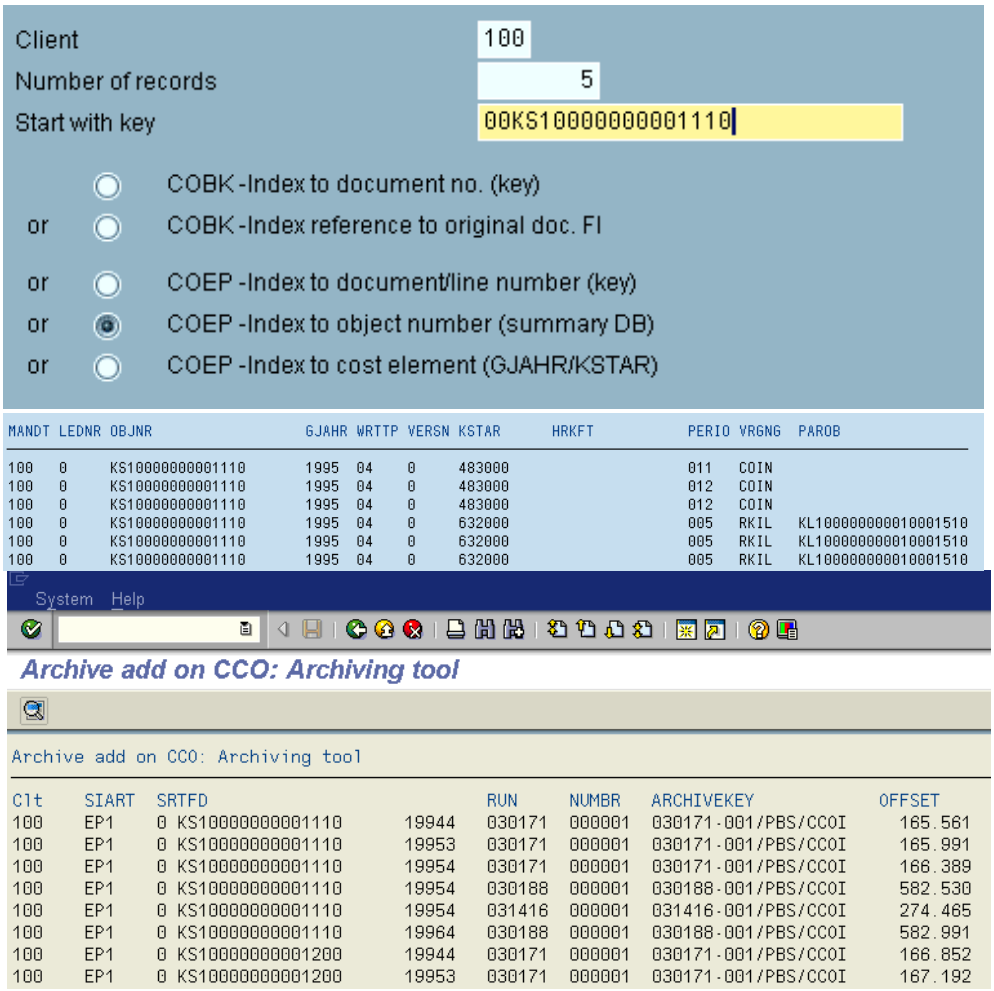


Diagram 4.8: Selection screen, basic and detailed list of the archiving tool for cost center line items with the key field 00KS10000000001110

Originally, the archiving tool was developed for PBS-internal service and problem support. Due to its technical function, it has become an efficient tool for the experienced basis administrator.

4.7. Disk Space and Runtimes

The PBS archive add on CCO is set up in sequential files (flat files) in the SAP file system independently of the database (see above). The system administrator's task is to reserve free storage capacity to set up secondary indices.

The disk space capacity that is to be made available depends on the number of CO line items and CO totals records that are to be transferred to the PBS archive. For each CO line item and CO totals record you should calculate a capacity of about 30 to 50 bytes.

Performance and runtime during the construction of the secondary indices of the PBS archive add on CCO strongly depend on the efficiency of your system and the data volume to be processed. For example: To generate the PBS indices for 100.000 CO line items, a runtime of less than 5 minutes is required on a 'Sun Ultra Enterprise 450' (two 300 MHz CPUs).

4.8. Definition of the Path

Archiving objects

The PBS archive add on CCO contains two index generation programs that are assigned to an archiving object. Logical file paths are assigned to each archiving object via the SAP customizing. These logical file paths represent a physical file path.

The PBS archive add on CCO contains the following archiving objects:

/PBS/CCOI PBS archive add on CCO – line items

/PBS/CCOT PBS archive add on CCO – totals records

Maintenance via transaction SARA

The Customizing settings of the PBS archiving objects can be modified via the transaction SARA.

→ SARA → Customizing → Technical Settings

4.9. Long-term Indexing Concept

For many users it is important, for example for tax reasons, to keep the CO line items and CO totals records archived with the PBS archive add on CCO available in the online mode for a long period of time (for example, for more than five years). If additionally the data volume is very large, the complete data volume can increase so much that a good performance of the online accesses to the PBS index is no longer possible, even in the case of an efficient system.

To reduce the data volume which is accessed in the online operation, the user may wish to occasionally 'switch off' one or more index runs from online access, without deleting the actual PBS indices. As the indices of the different index runs are not merged in the PBS archive add on CCO, this wish can be easily fulfilled by the utilities of the PBS archive add on CCO: You only have to deactivate specific PBS indices and thus exclude them from the online access. This process can easily be reversed again by activating the indices.

As long as the "deactivated" PBS index runs are not used, they can be archived on any medium. The easiest way is to transfer them into an optical archive or a HSM system via SAP ArchiveLink. If needed again, they can be easily reloaded from such systems.

To switch off certain PBS index runs, you can use the function "Deactivate index" in the Administration Board.

To enable online access to the PBS index runs, which have been "switched off" again, simply activate again the runs. Before doing this, you only have to ensure, that the PBS index file and the corresponding SAP archive file have been transferred into the original file directory again.

4.10. Summary Index Setup

To check easily the correct index setup of the PBS archive add on CCO, the most important steps in the index setup are summarized below (tick the box ✓):

- ❑ **SAP archiving: preparation, customizing, execution:** A correct SAP archiving must be executed for CO line items that should be indexed with the PBS archive add on CCO.
- ❑ **Preparation of the PBS archive add on CCO:** Reserve sufficient disk space in the file system. Option: Define a special file directory for the integration of the PBS index data via customizing functions.
- ❑ **Set up the PBS indices** for the requested SAP archive files with the index generation program.
- ❑ After all indexing runs have been finished: **complete administration table** /PBS/ARCH_IDX (Activate index).
- ❑ Use the archiving tool to **check** the indices created with PBS archive add on CCO.

Then the index setup of the PBS archive add on CCO has been completed. The user can now access the data for display and evaluation in the ONLINE operation!

5. Annex: Additional Information for CCO

5.1. Transactions of the PBS archive add on CCO

PBS	SAP	Transaction description
/PBS/PBS	-	Main menu of the PBS archive add ons
/PBS/CCO	-	Menu of the PBS archive add on CCO
/PBS/CCOI_ABO	-	Indexing and administration (line items)
/PBS/CCOT_ABO	-	Indexing and administration (totals records)
/PBS/CCOT_C	-	Convert Report Group
/PBS/CCOT_E	-	Execute Report Group
/PBS/UTIL_VARI	-	Copy Selection Variants
/PBS/CCO_LVAR	-	Copy List Variants
/PBS/KB13N	KB13N	Display Reposting of Primary Costs
/PBS/KB43N	KB43N	Display Manual Repostings of Revenue
/PBS/KB63	KB63	Display Reposting of CO Line Items
/PBS/KB66	KB66	Display Indirect Activity Allocation Reposting
/PBS/KB16N	KB16N	Display Manual Allocations
/PBS/KB23N	KB23N	Display Direct Activity Allocation
/PBS/KB53N	KB53N	Display Sender Activities
/PBS/KB33N	KB33N	Display Statistical Key Figures

/PBS/KALR	KALR	Reconciliation Ledger: CO Line Items
/PBS/KSB1	KSB1	Cost Centers: Actual Line Items
/PBS/KSBP	KSBP	Cost Centers: Plan Line Items
/PBS/KOB1	KOB1	Orders: Line Items Actual
/PBS/KOBP	KOBP	Orders: Plan Line Items
/PBS/CJI3	CJI3	Project Actual Cost Line Items
/PBS/CJI4	CJI4	Project Plan Cost Line Items
/PBS/CPB1	CPB1	Business Processes: Actual Line Items
/PBS/CPBP	CPBP	Business Processes: Plan Line Items
/PBS/KKCS	KKCS	Cost Objects Line Items Actual
/PBS/KKCP	KKCP	Cost Objects Line Items Plan
/PBS/KVBI	KVBI	Sales Documents: Line Items Actual
/PBS/KSB5	KSB5	CO line items and CO totals records: Actual Costs
/PBS/KABP	KABP	Controlling Documents: Planned Costs

5.2. Layouts

A query is made for the variant that controls the layout formatting in some transactions. This layout contains the information regarding list column structure, sort criteria, filter conditions and list header.

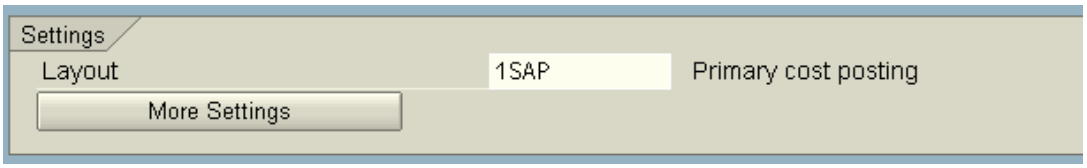


Diagram 5.1: Define layout

Transaction /PBS/CCO_LVAR is used to create layouts for the CCO transactions. This is carried out by copying the layouts of the original transactions. The program automatically adds the column for the PBS indicator in the layout.

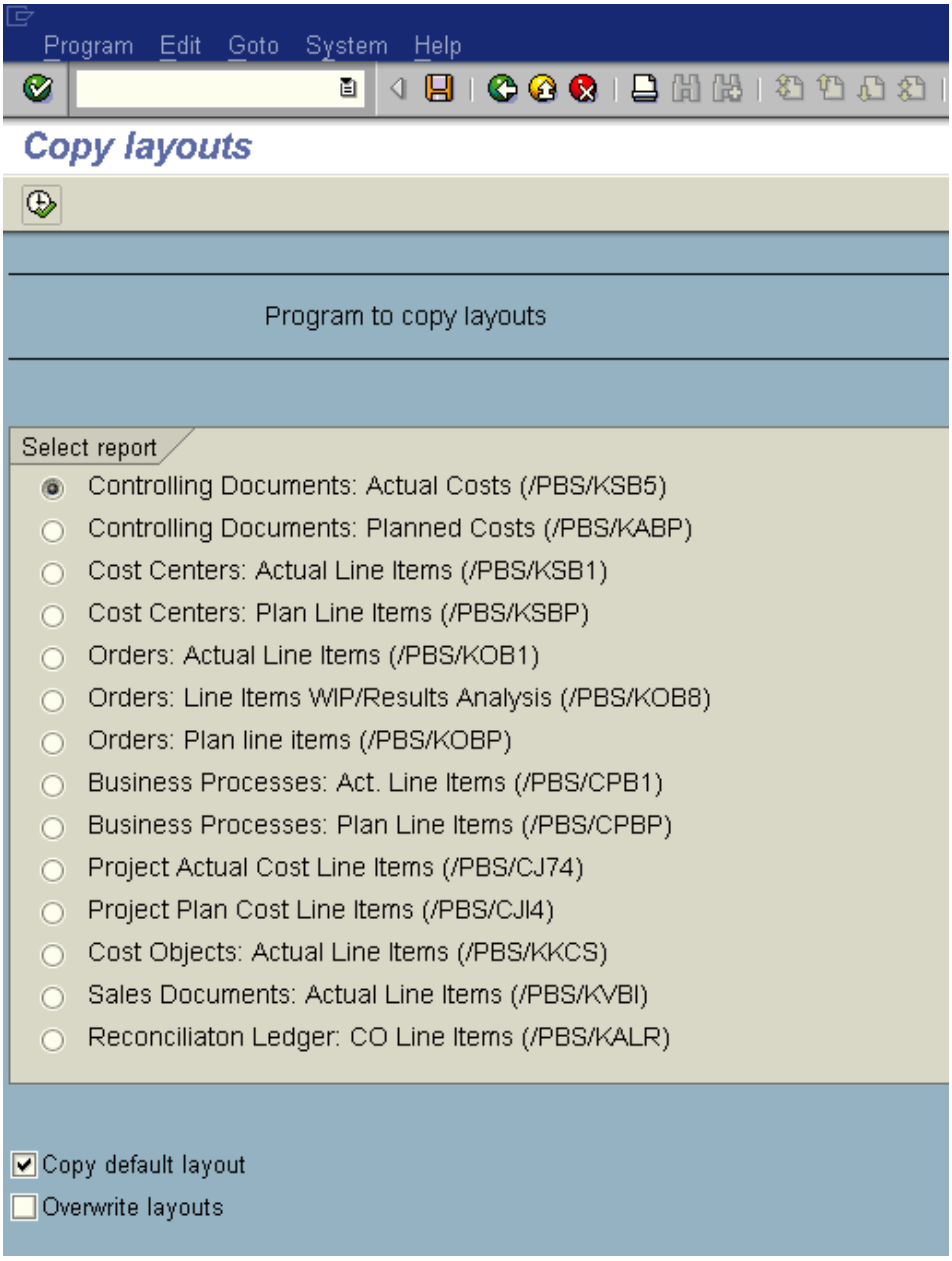

Program Edit Goto System Help
Copy layouts
Program to copy layouts
Select report
Controlling Documents: Actual Costs (/PBS/KSB5)
Controlling Documents: Planned Costs (/PBS/KABP)
Cost Centers: Actual Line Items (/PBS/KSB1)
Cost Centers: Plan Line Items (/PBS/KSBP)
Orders: Actual Line Items (/PBS/KOB1)
Orders: Line Items WIP/Results Analysis (/PBS/KOB8)
Orders: Plan line items (/PBS/KOBP)
Business Processes: Act. Line Items (/PBS/CPB1)
Business Processes: Plan Line Items (/PBS/CPBP)
Project Actual Cost Line Items (/PBS/CJ74)
Project Plan Cost Line Items (/PBS/CJI4)
Cost Objects: Actual Line Items (/PBS/KKCS)
Sales Documents: Actual Line Items (/PBS/KVBI)
Reconciliaton Ledger: CO Line Items (/PBS/KALR)
Copy default layout
Overwrite layouts

Diagram 5.2: Copy layouts

5.3. Convert Report Groups

Using the transaction /PBS/CCOT_C you can convert report groups which are based on the table CCSS. This enables you to read cost center totals records from the database and/or the CCO archive. During converting a report group different reports are created. The conversion has to be executed in each system in which you wish to carry out the report group. By setting the checkbox 'Overwrite programs' the generated programs of already converted report groups are overwritten without any warning.

The transaction /PBS/CCOT_C is only intended for the conversion of SAP report groups. Customer-specific report groups can be converted. However, the functionality can only be guaranteed for SAP report groups. It should be checked in individual cases whether a customer-specific report group is suitable for conversion.

Start the converted report groups with transaction /PBS/CCOT_E.

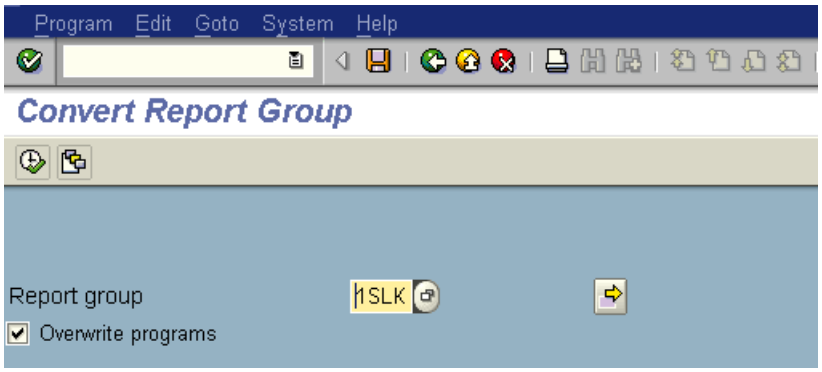


Diagram 5.3: Convert Report Group

5.4. Integration of Display Transaction into User Menus

The CCO transactions can be called via the transaction code or can be integrated into the corresponding SAP menus (transaction SE43).

If you do not want to modify the standard menus, the area menu can also be copied under another name, for example, beginning with ‘Z’.

PBS area menus (activity menus) are not only available for the PBS archive add ons in general (/PBS/MAIN) but also for the PBS archive add on CCO (/PBS/CCO).

5.5. ABAP/4 Interfaces

Archive access of the PBS archive add on CCO

All access routines to the PBS archive indices of the PBS archive add on CCO are contained in ABAP/4 program /PBS/CCOIREAD. Please see the example utilities of the **PBS archive add on CCO**, e.g. /PBS/CCOIU00x, x = 1 to 6. to see, how these routines can be used.

Adjustment of customer-specific programs/reports:

To adjust customer-specific programs and reports to the archive accesses of the PBS archive add ons, PBS offers support via a special conversion utility: Transaction **/PBS/UTIL_CONVERT automatically** adds the necessary access routines to the ABAP/4 programs, in order to display and evaluate archived data which has been transferred into an archive of a PBS archive add on. For this purpose, the PBS archive accesses are added to the "SELECT" commands of the programs. You can also start this conversion utility from the main menu of the PBS archive add on.

After having improved and extended the functionality of the PBS conversion tool a separate manual is available which explains the properties and usability of the PBS conversion tool in detail.

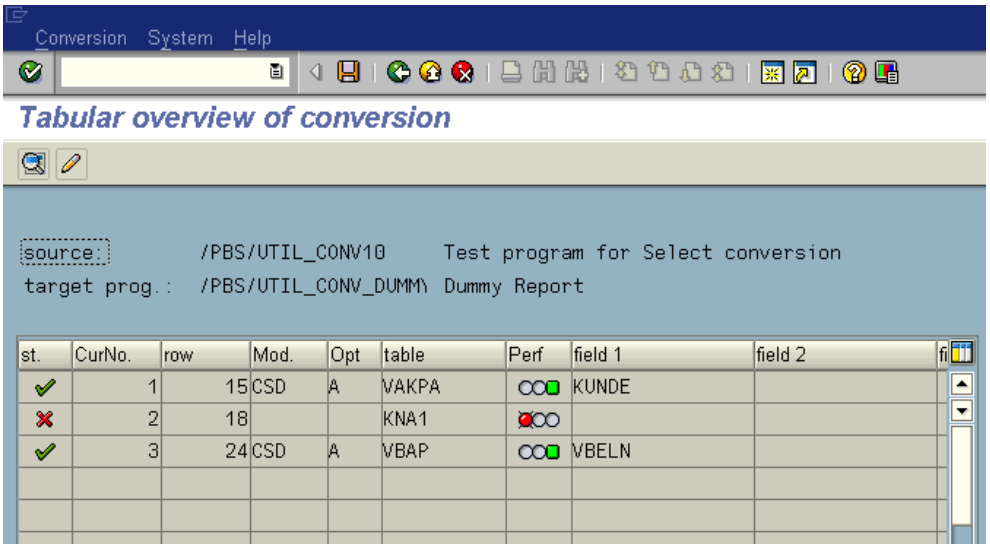

Conversion System Help
Tabular overview of conversion
source: /PBS/UTIL_CONV10 Test program for Select conversion
target prog.: /PBS/UTIL_CONV_DUMMY Dummy Report
st. CurNo. row Mod. Opt table Perf field 1 field 2
1 15 CSD A VAKPA KUNDE
2 18 KNA1
3 24 CSD A VBAP VBELN

Diagram 5.4: Results log of the conversion utility

5.6. The CCO Archiving Objects

To store the index data of the PBS archive add on CCO two archiving objects /PBS/CCO and /PBS/CCOT are used which were created with ADK (Archive Development Kit) means. Normally, these archiving objects remove data from the SAP database during an archiving respectively deletion run. The archive indices necessary for the read access to the CO line items and CO totals records are now created with the help of the CCO archiving objects. Of course, a deletion run and a reloading of the data are not useful for these objects. Therefore, the program does not contain such a function.